

IN THE CLAIMS:

A complete listing of all pending claims is shown:

1. - 38. (canceled)

39. (currently amended) A mobile handheld instrument configured to capture an image of a target and spatial data for determination of a position of the target, said instrument including:

- i. ~~two~~ a plurality of ~~one or more~~ measuring devices, the measuring devices including a camera and a plurality of spatial sensors configured to ~~for capturing~~ spatial data for determination of the position of the target, the spatial sensors including:
 - a) a compass having one or more magnetic field sensors and being aligned with the camera for determination of a bearing of the mobile instrument by measurement of the Earth's magnetic field;
 - b) a laser distance meter for determining a distance from the mobile instrument to the target, the laser distance meter being aligned with the camera and compass such that it is directed towards the target when the camera is aligned with the target; and
 - c) a positioning system for determining a position of the mobile instrument;
- ii. an electronic display screen configured to display a view obtained using the camera and to superimpose a marker indicative of a datum position on the displayed view to enable a user to align the mobile instrument with the target;
- iii. a first power switch operable to control power to one or more first ones of the measuring devices ~~the compass;~~
- iv. a second power switch operable to control power to one or more second ones of the ~~other~~ measuring devices; and

v. a power controller capable of asynchronously operating the first and second power switches so as to asynchronously obtain data from the compass and one or more other spatial sensors; and

vi. memory configured to store data obtained from the measuring devices; wherein the mobile instrument is configured to obtain an image from the camera and data from each spatial sensor and store the image and data in the memory, associating the data with the image.-

40. (original) A mobile instrument according to claim 39 wherein the power controller is at least partially integrated with one of the measuring devices.

41-42. (canceled)

43. (original) A mobile instrument according to claim 39 wherein the power controller includes one or more power control lines for controlling the power switches, a camera data line coupled to the camera and one or more sensor data lines each coupled to a respective spatial sensor.

44. (canceled)

45. (previously presented) A mobile instrument according to claim 39 ~~to~~ wherein the one or more spatial sensors include one or more of: a distance meter, a global position sensor and an orientation sensor.

46-78. (canceled)

79. (previously presented) A mobile instrument according to claim 39 wherein the power controller includes a processor, and a device for controlling the supply of power to the processor.

80. (previously presented) A mobile instrument according to claim 40 wherein the power controller includes a processor, and a device for controlling the supply of power to the processor.

81 (previously presented) A mobile instrument according to claim 80 wherein the device for controlling the supply of power to the processor is a monostable device.

82. (previously presented) A mobile instrument according to claim 39 wherein the power controller includes two or more handshaking lines, each coupled to a respective power switch.

83. (previously presented) A mobile instrument according to claim 39 including: a port able to be connected to an external sensor from which the mobile instrument may obtain further information; and a third power switch to control power to the port, the power controller being capable of asynchronously controlling the first, second and third power switches.

84. (previously presented) A mobile instrument according to claim 39 wherein the measuring devices include a distance meter, a global position sensor and an orientation sensor, and the mobile instrument further includes a display screen.

85. (previously presented) A mobile instrument according to claim 39 wherein the power controller is a central processing platform which also receives data from the measuring devices.

86. (previously presented) A mobile instrument according to claim 39 wherein the controller is arranged to control the power switches to provide power to a measuring device when it is required to provide data and not to provide power to the measuring device at other times.